

WHAT IS CLAIMED IS:

1. An electric brake apparatus comprising:  
an electric motor which generates a rotational drive force;  
a gear train connected to the electric motor so as to be driven thereby and generating a rotational drive force;  
a screw feed mechanism having an input member connected to the gear train so as to be driven thereby, the screw feed mechanism converting the rotational drive force from the gear train into a linear drive force;  
a wedge transmission mechanism connected to the screw feed mechanism so as to be driven thereby for converting the linear drive force from the screw feed mechanism into a linear drive force transverse to the linear drive force from the screw feed mechanism; and  
a piston connected to the wedge transmission mechanism so as to be driven thereby in an axial direction of the piston and generate a braking force.
2. An electric brake apparatus as claimed in claim 1 wherein a rotating output shaft of the electric motor and a screw shaft of the screw feed mechanism are disposed side by side.
3. An electric brake apparatus as claimed in claim 1 wherein the gear train has an output gear which is integrally formed on the input member of the screw feed mechanism.